1) 
$$36-9x^{2}+4y^{2} = 36$$

$$\frac{x^{2}-y^{2}}{5} = 1$$

$$\left|\frac{\partial x}{\partial y}(x)\right| = 1$$

$$\frac{\partial z}{\partial x} = e^{-\sqrt{x_1^2}y_1^2} + x \cdot e^{-\sqrt{x_1^2}y_1^2} + \left(-\frac{x}{\sqrt{x_1^2}y_1^2}\right)$$

$$\frac{\partial l}{\partial x} = e^{-\sqrt{x^2 + y^2}} \left( 1 - \frac{x^2}{\sqrt{x^2 + y^2}} \right)$$

$$\frac{\partial}{\partial x} = e^{-\sqrt{x^2 + y^2}} \left( -\frac{x}{\sqrt{x^2 + y^2}} \right)$$

$$\frac{\partial}{\partial y} = e^{-\sqrt{x^2 + y^2}} \left( -\frac{x}{\sqrt{x^2 + y^2}} \right)$$

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$$1 \times 0 = 1$$
  $1 \times 0 = 2$ 

$$0 \times 0 = 1 \times 0 = 1 = 0.0 \times 0$$

$$S_{x} = \frac{\partial f}{\partial y}$$

$$S_{y} = \frac{\partial f}{\partial y}$$

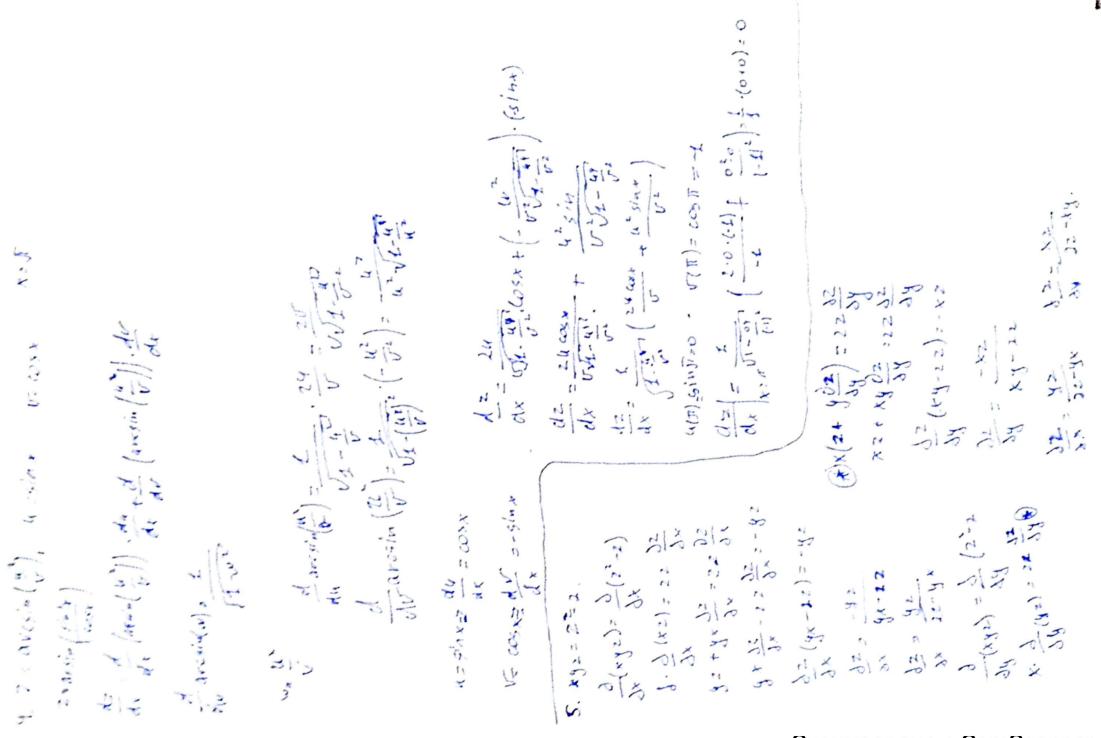
$$\int ((x, 2) = \sqrt{13})$$

$$\frac{\partial f}{\partial x}(1, 1) = \frac{1}{2}$$

$$\frac{5(101,1.97) \approx 3 \cdot \frac{1}{1} \cdot 0.01 + 2 \cdot (-0.03)}{5(1.01,1.57) \approx 2.35} \left\{ \frac{3x}{49} \left\{ 1, 2 \right\} = 2 \right\}$$

$$\begin{cases} (12) = \sqrt{1^3 + 2^3} = 3 \\ (12) = \sqrt{1^3 + 2^3} = 3 \\ \frac{d}{dx}(12) = \frac{1}{1} \\ \frac{d}{dx}(12) = 2 \end{cases}$$

3. 
$$f(x,y) = \sqrt{x^{2}+y^{3}}$$
 $x = 1.02$ 
 $y = 1.27$ 
 $6x = 1.02 - 1 = 0.02$ 
 $5(x,y) = f(x,y) + f(x,y)$ 



30 0g-2(20) 16=0=> 0g=2=> D= AC-B= (2)-(2)-(2)-(2)=3>0 DE KATE KITELL =8-16-4+24+3=15. 4 Aco, (9,4) X=21/= 7: 15 000 2(4,4) ATT CE 11 22 - Y+6x+3 -,100 412 7.7 20/4 => 13. 2-343-184-28-=-2 20 A= - イー 別 = フ・・ 20 200 SCXD8 X 4

7 (1) Kit to 50 0=0 -200 69-2= 11 2/2 3/5

7-178

50

0:x30

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